



1-channel transceiver FSK 433.92 or 869.52MHz – high speed digital transmission



This system enables **two-way half duplex digital links** over a range of up to **500 metres**.

It is used as an asynchronous serial channel where the useful data rate ranges from **0.2kbps to 40kbps Manchester**.

The transmission protocol remains up to the user.

It uses the 433.92 - 869.52 or 915MHz frequencies according to the European directive RTTE EN300-220/EN 301-489 or the FCC Part 15.

The product is available as a **miniature daughter board** to be integrated.

The applications covered range from **point to point transmissions**, industrial remote controls, remote sensors to **cordless local networks**... in both **industrial sectors of activity**: robotics, remote control, and in **general public or tertiary fields**: access control, home automation...

Specifications

	433 MHz version	869.52 or 915MHz versions
Transceiver		
• Frequency	433.92MHz	869.525MHz or 915MHz
• Radiated RF power	10mW (10 dBm)	8mW(869.52MHz version) 1mW(915MHz version)
• Operating voltage	2,1 to 5V	Idem
• Transmission rate	0,2kbps to 40kbps Manchester	Idem
• Settling time	< 2ms	Idem
• Standby consumption	< 1µA	Idem
• Size	24 x 32 x 3mm	Idem
• Range	500m	Idem
• Operating Temperature	- 20 / +70°C	Idem
• Can be qualified in compliance with the RTTE European Directive EN300-220/EN 301-489		
Receiver		
• Sensitivity	-105dBm	Idem
• Bandwidth	150KHz	Idem
• Rated Consumption	17mA	Idem
• Demodulation	+/- 50KHz	Idem
• RX wake-up time	< 1ms	Idem
Transmitter		
• Modulation	2FSK +/- 50KHz	Idem
• Rated consumption	20mA	Idem

Part Numbers

ARF6899A : 433.92MHz transceiver - SMD version
 ARF6899B : 433.92MHz transceiver - Comclips version
 ARF7356A : 869.52MHz transceiver - SDM version
 ARF7356B : 915MHz transceiver - SDM version

Your distributor